| Sample description | Analyses required | Location | Comments | Date due |
|---|--|---|---|--|
| WEEKLY Air particulate and radioiodine charcoal cartridge (WCA) | Analyses required PARTICULATE Gross β/γ field count Weekly 5-filter composite γ isotopic CHARCOAL Gross γ field count (Eq. ¹³¹ I) Weekly 5-cartridge composite γ isotopic FLAGS γ isotopic Fission product activity or activated corrosion product activity above MDL Field counts Indicator > 2x Control (β/γ) or >100 cpm gross γ, requires individual g isotopic analysis | A-1, Sharpe H-1, East of Coffey County Lake L-1, Burlington P-1, New Strawn D-1, Harris (Control) | A-1, P-1, H-1 and P-2 are collocated with WCNOC | Every Thursday |
| MONTHLY Surface water (WCSW) | γ isotopic on each sample collected Tritium (H3) monthly on each sample. FLAGS Fission product activity, other than Coffey County Lake (CCL) ³ H, or activated corrosion product activity above MDL CCL ³ H > 20,000 pCi/ℓ Control sample ³ H > 2x MDL requires re-analysis | J-1, CCL spillway, as needed. Q-1, CCL discharge cove (DC) N-1, John Redmond Reservoir (Control) | Samples are split with WCNOC | Third Thursday of each month |
| Drinking water (WCDW) | Tritium (H3) and γ isotopic on each sample collected Sr80/90 on quarterly composite FLAGS Fission product activity or activated corrosion product activity above method detection limits ³ H > 2x MDL requires reanalysis | H-1, LeRoy water treatment facility settling basin | Collocated with WCNOC | First Thursday of the month. (Collected by WCNOC) |

| Sample description | Analyses required | Location | Comments | Date due |
|---|--|--|--|--|
| QUARTERLY Direct Radiation (WCTLD) | TLDs processed within 3 days after collection FLAGS Indicator > 3x Control | 31 locations: see procedure RCP/ERS-001 | 14 sites are collocated TLD collection at CCL baffle dikes requires WCNOC notification | First week of new quarter |
| Milk (WCM) | γ isotopic on each sample collected (Ion Exchange Chromatography is specified for low-level ¹³¹ I analysis). ⁸⁹ Sr and ⁹⁰ Sr are done annually Flags Any fission or activation products above MDL | R-1, Lebo (Control) | There are currently no available milk sampling indicator locations available within the WCGS 10 mile EPZ | First Thursday of the new quarter |
| SEMI- ANNUALLY Fish (WCF) | γ Isotopic on each sample collected. Tritium (³H) in tissue analysis on one type of fish from each location. FLAGS Fission product activity, ³H, or activated corrosion products above MDL. CCL ³H > 20,000 pCi/kg | 2 Locations N-1, Below John Redmond Reservoir on Neosho River (Control) Q-1, CCL usually in the discharge cove but anywhere on CCL. A planned minimum sample collection effort consists of one game and one rough fish from the control location, and three game and two rough fish from the indicator location | Samples of the following species are targeted for collection in the Coffee County Lake: Common Carp, Smallmouth Buffalo, Big mouth Buffalo, Channel Catfish, Flathead Catfish, White Bass, White Bass Hybrids, Smallmouth Bass, White Crappie, Gizzard Shad, and Walleye. An effort should be made to collect at least six different species over the 12-month period. | Target collection dates are in the months of May and October |
| ANNUALLY Terrestrial vegetation, Human Food crops (Trending) (WCFV) | γ isotopic on each sample collected FLAGS Fission product activity or activated corrosion products above MDL. 89Sr and 90Sr analysis if γ isotopic analysis shows the presence of two or more fission or activation products (except ¹³⁷ Cs or ⁶⁰ Co) above MDL | 2 Locations Garden in Sector A, G, or R Crops in Sectors H through L | Garden and (potential) irrigated crop samples split with WCNOC | Based on Seasonal harvest times |

| Sample description | Analyses required | Location | Comments | Date due |
|--|--|---|--|--|
| ANNUALLY, cont. Aquatic vegetation (Trending) (WCAL or WCRA) | γ isotopic on each sample collected, Sr89/90 on CCL Discharge Cove Samples FLAGS Fission product activity or activated corrosion products above MDL in locations other than the Discharge Cove. 89Sr and 90Sr analysis if γ isotopic analysis in locations other than the Discharge Cove shows the presence of two or more fission or activation products (except 137Cs or 60Co) above MDL. | 5 Locations J-1, Wolf Creek below CCL N-1, John Redmond Reservoir (Control) P-1, CCL public fishing area Q-1, CCL DC R-1, CCL EEA | AL = Algae RA = Rooted aquatic Samples may be rooted aquatic plants or algae. P-1, Q-1, and R-1 are split with WCNOC | Target collection dates are in the months of May and October A q u a t i c vegetation is not always available in t a r g e t m o n t h s. M o n i t o r growth to o b t a i n samples as they become available. |
| Soil (Trending) (WCS) | γ isotopic on each sample collected FLAGS Fission product activity or activated corrosion products above MDL. 89Sr and 90Sr analysis if γ isotopic analysis shows the presence of two or more fission or activation products (except 137Cs or 60Co) above MDL | 5 Locations A-1, North of WCGS E-1, Scott Valley Church (Control) H-1, East of CCL dam P-1, CCL public fishing area R-1, CCL environmental educational area (EEA) | P-1 and R-1 are split with WCNOC. Soil and pasturage are obtained concurrently | Target collection dates are in the months of May and October |
| Pasturage (Trending) (WCFV) | γ isotopic on each sample collected FLAGS Fission product activity or activated corrosion products above MDL. 89Sr and 90Sr analysis if γ isotopic analysis shows the presence of two or more fission or activation products above MDL | 5 Locations A-1, North of WCGS E-1, Scott Valley Church (Control) H-1, East of CCL dam P-1, CCL public fishing area R-1, CCL environmental educational area (EEA) | P-1 and R-1 are split with WCNOC. Soil and pasturage are obtained concurrently | Target collection dates are in the months of May and October |

| Sample description | Analyses required | Location | Comments | Date due |
|---|--|---|--|---|
| ANNUALLY, cont. Bottom and Shoreline sediment (Trending) (WCBS) | γ isotopic on each sample collected. Sr 89/90 on all samples from the Discharge Cove. FLAGS Fission product activity or activated corrosion products above MDL. 89Sr and 90Sr analysis if γ isotopic analysis in locations other than the Discharge Cove shows the presence of two or more fission or activation products (except 137Cs or 60Co) above MDL. | 6 Locations AN-1, John Redmond Reservoir (Control) AP-1, CCL public fishing area (Shoreline only) AQ-1, CCL DC AR-2 CCL DC (Bottom only) AR-1, CCL EEA AJ-1, Wolf Creek below CCL (Bottom and/or Shoreline as available) | AN-1, AQ-1, AR-1 and AP-1 are split with WCNOC | Target collection dates are in the months of May and October |
| Ground water (WCGW) Surface water (Trending) (WCSW) | Gross α and β, γ isotopic, tritium (³H) on each sample collected FLAGS γ isotopic shows fission or activation products, gross β of > 15pCi/l H³ levels > 2x MDL requires re-analysis. γ isotopic and tritium (³H) FLAGS Fission product activity, ³H, or activated corrosion product activity above MDL | 4 Locations B-1 (Control) J-1 L-2 N-1 P-2, New Strawn City Lake | Samples are split with WCNOC | |
| Animals (WCB) (Game and Domestic meat.) | γ isotopic on each sample collected FLAGS Fission product activity or activated corrosion product activity above method detection limits | Nearest site boundary in Sectors A, R, G, or H Alternate areas: near Q-1 (CCL DC), J-1 (Wolf Creek below CCL), and areas near the Neosho River below the Wolf Creek Neosho River confluence In vicinity of N-1 (John Redmond Reservoir) or other areas ≥ 10 miles distant from WCGS | Samples collected on WCNOC property are split | These samples have been discontinued from the planned program until further notice. Sample collection and analytical procedures are maintained for emergency response purposes. |

| Sample description | Analyses required | Location | Comments | Date due |
|------------------------------------|---|--|--|--|
| Random Samples Soil Samples (WCRS) | γ isotopic on each sample collected FLAGS Fission product activity or activated corrosion products above MDL. 89Sr and 90Sr analysis if γ isotopic analysis shows the presence of two or more fission or activation products (except 137Cs) above MDL | 10 random locations Anywhere within the 50 mile IPZ. Primarily within the 10 mile EPZ in sectors P-D and G-K. | Samples collected on WCNOC property will be split. | Year round collection with primary focus in Spring and Autumn. |
| Sediments (WCRBS, WCRSS) | γ isotopic on each sample collected, 89Sr and 90Sr analysis on Discharge Cove. FLAGS Two or more Fission products or activated corrosion products above MDL. 89Sr and 90Sr analysis if γ isotopic analysis in locations other than the Discharge Cove shows the presence of two or more fission or activation products (except 137Cs or 60Co) above MDL. | 12 Random Locations (bottom or Shoreline) on CCL Anywhere on CCL, primary focus in sectors H - A 4 Random Locations (bottom or shoreline) Samples will be collected from random locations downstream of CCL on the Neosho River and Wolf Creek. Shoreline or bottom sediment samples. | Bottom and Shoreline sediment samples do not need to be colocated. | Year round collection with primary focus in Spring and Autumn. |

| Sample description | Analyses required | Location | Comments | Date due |
|---|---|---|---|---|
| Aquatic Vegetation (Rooted Aquatics or Algae)(WCRAL, (WCRRA) | γ isotopic on each sample collected, 89Sr and 90Sr analysis on Discharge Cove samples. FLAGS Two or more Fission products or activated corrosion products above MDL. 89Sr and 90Sr analysis if γ isotopic analysis in locations other than the Discharge Cove shows the presence of two or more fission or activation products (except 137Cs or 60Co) above MDL. | 6 Random Locations Random Aquatic vegetation samples will be collected on CCL and areas within the 10-mile EPZ, downstream of the CCL discharge on Wolf creek, the Neosho River and their tributaries. | Samples may be rooted aquatic plants or algae. | Year round collection with primary focus in Spring and Autumn. |
| Terrestrial Vegetation (Food/ Feed and Pasturage) (WCRFV) | γ isotopic on each sample collected. FLAGS Two or more Fission products or activated corrosion products above MDL. 89 Sr and 90 Sr analysis if γ isotopic analysis shows the presence of two or more fission or activation products above MDL | These locations should be concentrated in, but not restricted to, the primary downwind sectors (P-C and G-K) and within the 10-mile EPZ or from any area where liquid plant wastes have been discharged (broadly interpreted to include crops irrigated with Neosho River water from locations downstream of the Neosho River-Wolf Creek confluence in sectors J and H. | Terrestrial vegetation samples should include but not be limited to: Soybeans (plants, oil or silage), corn (food and silage), wheat (food and graze), sorghum (animal feed), fruit trees (food), broad leaf vegetables, common pasturage plants and tuberous/root food products. | The sample collection effort should be distributed over the year and at the times of harvest, to allow for a variety of samples in different growing seasons. |